

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CL001471 PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/017654	International filing date (day/month/year) 04/06/2004	(Earliest) Priority Date (day/month/year) 04/06/2003
Applicant AXYS PHARMACEUTICALS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C07C311/18	C07C311/54	A61K31/41	A61K31/18	A61K31/38
	A61P29/02	A61P25/28	A61P37/02	A61P35/00	A61P9/10
	C07D263/56	C07D335/02	A61P17/06		

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/19816 A (BOEHRINGER INGELHEIM PHARMA ; EMMANUEL MICHEL J (US); FRYE LEAH L (US)) 22 March 2001 (2001-03-22) cited in the application abstract; claims 20-28 -----	1,18
A	WO 03/029200 A (BOEHRINGER INGELHEIM PHARMA) 10 April 2003 (2003-04-10) cited in the application abstract; claims 1-30 -----	1,18
A	WO 00/51998 A (BOEHRINGER INGELHEIM PHARMA) 8 September 2000 (2000-09-08) Abstract; pages 157-174; claim 1 -----	1,18
A	EP 0 623 627 A (MITSUBISHI CHEM IND) 9 November 1994 (1994-11-09) the whole document -----	1,18
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

3 November 2004

11/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/069901 A (BAYLY CHRISTOPHER IAN ; MERCK FROSST CANADA INC (CA); ROBICHAUD JOEL S) 12 September 2002 (2002-09-12) claims 1,19-29 -----	1,18
A	WO 01/19796 A (LINK JOHN O ; ZIPFEL SHEILA (US); AXYS PHARM INC (US); GRAUPE MICHAEL) 22 March 2001 (2001-03-22) claims 1,11-13 -----	1,18

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US2004/017654**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 19, 20 because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 19–20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Information on patent family members

PCT/US2004/017654

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0119816	A 22-03-2001	AT 244235 T AU 7081800 A BG 106483 A BR 0013966 A CA 2385130 A1 CN 1384830 T CZ 20020844 A3 DE 60003702 D1 DE 60003702 T2 DK 1218372 T3 EE 200200132 A EP 1218372 A1 ES 2199856 T3 HU 0302380 A2 JP 2003529546 T NO 20021207 A PT 1218372 T SI 1218372 T1 SK 4902002 A3 US 2002058809 A1 WO 0119816 A1 US 2003225271 A1 US 2003225270 A1 US 6420364 B1		15-07-2003 17-04-2001 31-10-2002 15-06-2004 22-03-2001 11-12-2002 12-06-2002 07-08-2003 22-04-2004 20-10-2003 15-12-2003 03-07-2002 01-03-2004 01-03-2004 07-10-2003 12-03-2002 28-11-2003 31-12-2003 10-09-2002 16-05-2002 22-03-2001 04-12-2003 04-12-2003 16-07-2002
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WO 0119796	A 22-03-2001	AU 7490900 A AU 7703300 A CA 2384974 A1		17-04-2001 17-04-2001 22-03-2001

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Information on patent family members

PCT/US2004/017654

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0119796	A	EP 1212302 A1	12-06-2002
		JP 2003509410 T	11-03-2003
		MX PA02002873 A	30-08-2002
		WO 0119808 A1	22-03-2001
		WO 0119796 A1	22-03-2001
		US 2004014796 A1	22-01-2004
		US 6492362 B1	10-12-2002

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